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DATE	8 April 1	964	AF	FFECTS:	wspo [) P	ROJECT		
NAME	OF MAJOR COM	APONENT	PART OR	LOWEST SUBAS	SEMBLY 5	PART NO.	& MODE	LOR	TYPE
TITLE	OF PROPOSAL:	WING PY	CLON DROP	TANK INSTAL	LATION				
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ES	ESTIMATED COST	To prome and time NDING REQUIRED FOR KITS (NDING REQUIRED)	INVOLVED JIRED: OR PARTS:	See Page	2		provis	ions	
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NATURE OF PROPOSAL:

The wing pylon drop tanks will consist of a 100 gallon capacity, cylinderically shaped tank and pylon assembly. Each tank will be equipped with a fuel boost pump to transfer fuel, and an atmosphere vented fuel filler cap for filling and venting the tank. A fuel drain plug will be provided to facilitate removal of fuel or condensed water from the tank. The pylon portion of the tank assembly will contain the breakensy portions of the fuel and electrical disconnects as well as the ejection springs.

The pylon tank assembly will attach to a permanently installed "PYLON STUB" at wing station 190. This stub will contain the fixed portions of the fuel and electrical disconnects, the ejection linkage and the ejection solenoid.

Fuel feed will be accomplished by transferring fuel at boost pump pressure from the tank to the auxiliary tank feed line, (main tank feed line on models with ARS), downstream of the existing check valve in that line. This will result in the drop tank fuel always being used first. The existing fuel system will remain unchanged and function exactly as at present as soon as the drop tanks are empty, or if the drop tanks are not used. This also holds true in the event of drop tank boost pump failures or, if for any reason, the pressure in the drop tank feed line falls below the wing tank pressure.

The total weight change to the aircraft is anticipated not to exceed 300 pounds. The permanent (nonjettisonable) weight change will not be more than 100 pounds. It is further presumed that the installation can be accomplished such that the location will not shift the C.G. and, therefore, no change in ballast will be required.

COST EREAKDOWN:

Contract SP-1923

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SCHEDULE:

A. Fabrication of 50 sets of tanks: .

One set of tanks available 18 weeks after go-shead, 2nd set in 20 weeks and one set each week thereafter till total of fifty is reached (68 weeks).

B. Installation and Flight test:

Aircraft due for installation 16 weeks after go-ahead, installation and flight test complete 22 weeks after go-ahead.

C. Fabrication and Assembly of Kits:

Six kits will be available with first six sets of tanks. The total six kits available 24 weeks after go-ahead.